

Table 4. Water quality of the Jackson and Yegua aquifers

[ft, feet; gal/min; gallons per minute; µS/cm, microsiemens per centimeter at 25 °C; °C, degrees Celsius; mg/L, milligrams per liter; NTU, nephelometric turbidity units; µg/L, micrograms per liter; <, less than; --, not available]

Sampled well number (fig. 2)	USGS station number	State well number	Aquifer	Sample date	Depth of well (ft)	Flow rate (gal/min)	Specific conductance (field) (µS/cm)	pH (field) (standard units)	Water temperature (°C)	Dissolved solids, residue at 180 °C (mg/L)	Turbidity (NTU)	Hardness, total (mg/L as CaCO ₃)
31	272726099010001	YZ-85-40-601	Yegua	03/03/1998	2,717	15	7,640	8.5	35	4,470	0.2	13
32	272804098582001	YZ-84-33-101	Jackson	09/10/1997	340	9	2,790	7.9	29	1,480	.48	190

Sampled well number (fig. 2)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium-adsorption ratio	Sodium percentage	Potassium, dissolved (mg/L as K)	Alkalinity (field, total) (mg/L as CaCO ₃)	Bicarbonate, dissolved (mg/L as HCO ₃)	Sulfate, dissolved (mg/L as SO ₄)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)
31	3.2	1.1	1,702	210	99	4.8	770	939	378	1,772	2.4
32	57	10	465	15	84	11	96	117	34	792	.33

Sampled well number (fig. 2)	Silica, dissolved (mg/L as Si)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite + nitrate, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as NH ₃)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia + organic, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, ortho, dissolved (mg/L as P)	Phosphate, ortho, dissolved (mg/L as PO ₄)	Aluminum, dissolved (µg/L as Al)
31	24	<0.01	<0.05	1.2	0.91	0.96	0.04	<0.01	0.04	0.12	4.8
32	23	<.01	<.05	.06	.04	<.2	--	<.01	<.01	--	5.8

Sampled well number (fig. 2)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)
31	<4	<1	86	<4	4,489	<4	11	<4	<4	96	<4
32	<2	30	232	<2	1,027	<2	2.0	<2	<2	81	<2

Sampled well number (fig. 2)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Uranium, dissolved (µg/L as U)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
31	325	31	<0.1	6.0	<4	<1	0	503	<4	<50	<4
32	94	11	<.1	3.5	<2	<1	<2	1,083	<2	<18	<2